PRODUCT DATASHEET
LN SF IP44 EM 1500 P 45W 840 WT

LINEAR SURFACE IP44 EMERGENCY | Robust IP44 luminaires with direct light emission, integrated driver and integrated emergency lighting function, up to 137 lm/W



PERFOR-MANCE CLASS

Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Efficient replacement for traditional T8 and T5 luminaires
- Public buildings
- Corridors, stairways

Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Protection against cover falling, theft and vandalism thanks to safety screws
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Convenient visualization of results of automatic test with an included control LED
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- 3 years guarantee
- Low maintenance and low operational costs
- Cable entry on the back of the luminaire and on each end-caps for easy electrical connection
- Easy and quick installation
- Low flicker light thanks to special electronic control gear

Product features

- Certified according to European norms (EN 60598-1:2015; EN 60598-2-22:2014)
- Luminaire suitable for normal lighting and emergency lighting
- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h



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- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO4
- Ambient temperature in operation: +5...+35 °C
- Surface mounted luminaires with direct light emission
- Type of protection: IP44
- Impact resistance: IK08
- Available in 3 different lengths: 600 mm, 1200 mm and 1500 mm
- Luminous efficacy: up to 137 lm/W

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TECHNICAL DATA

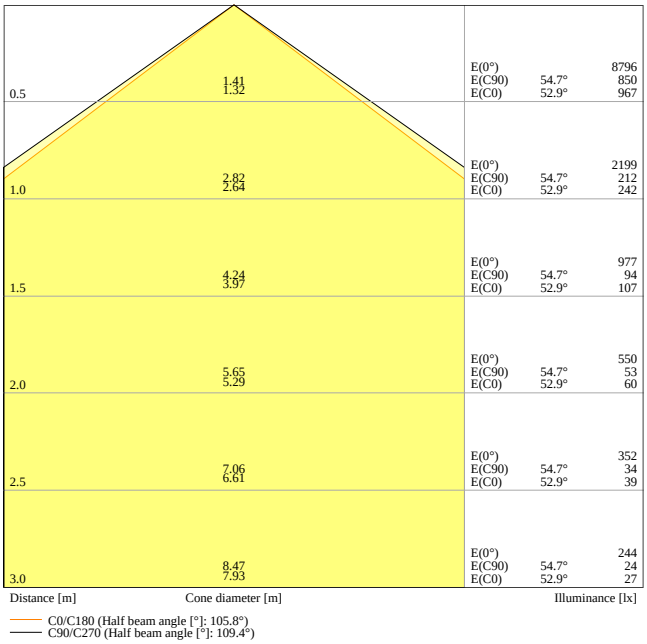
Electrical data

Nominal wattage	45.00 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	210.000 mA
Inrush current	24 A
Inrush current time T_{h50}	100 µs
Max. number of luminaires per miniature circuit breaker B16	22
Max. number of luminaires per miniature circuit breaker C10	14
Max. number of luminaires per miniature circuit breaker C16	22
Power factor λ	> 0.90
Maximum total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

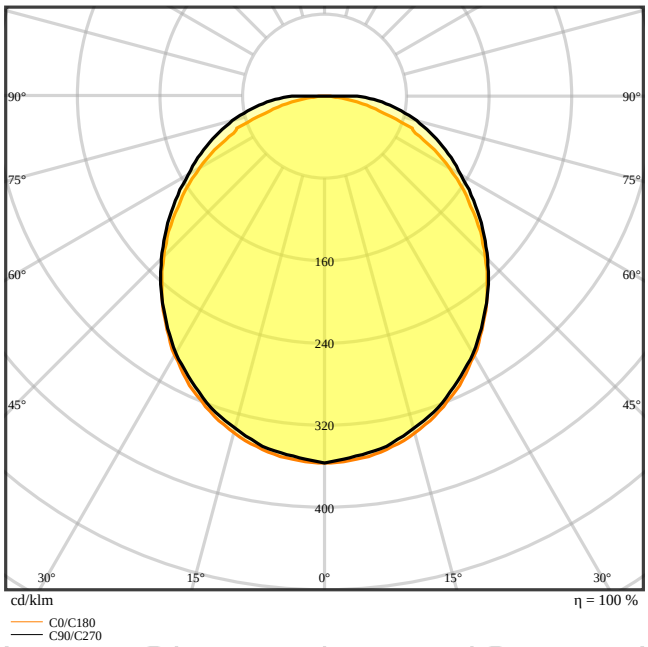
Photometrical data

Luminous flux	6165 lm
Luminous efficacy	137 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	< 3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	< 1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	110 °

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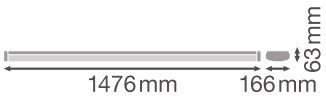
LN SF 1500 P 45W 840 WT IP44 EM



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Dimensions & Weight

Length	1476.00 mm
Width	166.00 mm
Height	63.00 mm
Product weight	3300.00 g



LN SF 1500 P 45W WT IP44

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Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Steel
Cover material	Polycarbonate (PC)
Light emitting surface material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	+5…+35 °C
Temperature range at storage	+5…+35 °C
Type of connection	Screwless terminal, 5-Pole
Type of protection	IP44
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Surface
Mounting location	Wall / Ceiling
Application environment	Indoor
Mechanically adjustable	No
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	70000 h [1)]
Lifespan L80/B10 at 25 °C	70000 h [1)]
Lifespan L80/B50 at 25 °C	70000 h
Lifespan L90/B10 at 25 °C	47000 h [1)]
Number of switching cycles	100000

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

Control gear

Output current	1070 mA
Output ripple current (100 Hz)	< 10 %

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BATTERY

Type of Battery	LiFePO4
Battery size [GMS]	Others
Nominal voltage of battery	3.2 V
Battery charging time	24 h

Emergency lighting

Type of Emergency Lighting (EL)	EL unit (battery and controller) for decentral operation included
Area of emergency application	Anti-panic lighting / Escape route lighting
Type of emergency light operation	Maintained / Non-maintained
Type of emergency operation test	Automatic
Wattage in maintained operation mode	45 W
Wattage in emergency operation mode	3,0 W
Luminous flux in maintained operation mode	6165 lm
Luminous flux in emergency operation mode	340 lm
Battery life in emergency operation mode	3 h
Integrated test switch	No

Certificates & Standards

Standards	CE / CB / ENEC / TÜV SÜD / UKCA / EAC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

EQUIPMENT / ACCESSORIES

- Equipped with through-wiring cables and connectors
- Tool-free cable strain reliefs included

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	LN SF P IP44 EM
PDF	Legal information	Light Source Insert LN SF P WT IP44 EM
PDF	Legal information	Legal Insert LN SF IP44 EM
PDF	Legal information	Informationstext 18 Abs 4 ElektroG

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	Documents and certificates	Document name
PDF	Declarations of conformity	CE Declaration LN SF IP44 EM
PDF	Declarations of conformity	LN SF series LUM
PDF	Declarations of conformity UKCA	UKCA Declaration LN SF IP44 EM
PDF	Declarations of conformity UKCA	LN SF series LUM
PDF	Certificates	ENEC LN SF IP44 EM

	Photometric and lighting design files	Document name
IES	IES file (IES)	LN SF 1500 P 45W 840 WT IP44 EM
LDT	LDT file (Eulumdat)	LN SF 1500 P 45W 840 WT IP44 EM
ULD	ULD file (DIALux)	LN SF 1500 P 45W 840
ROLF	ROLF file (RELUX)	LN SF 1500 P 45W 840
	UGR file (UGR table)	LN SF 1500 P 45W 840 WT IP44 EM
	Light distribution curve type cone	LN SF 1500 P 45W 840 WT IP44 EM
	Light distribution curve type polar	LN SF 1500 P 45W 840 WT IP44 EM

	CAD/BIM files	Document name
RFA	BIM Revit 3D	Linear Surface IP44 G2
STEP	CAD STEP 3D	LN SF IP44 G2 1500

	Tender texts	Document name
TXT	Tender documents	LINEAR SURFACE IP44 EMERGENCY 1500 P 45W 840 WT-EN

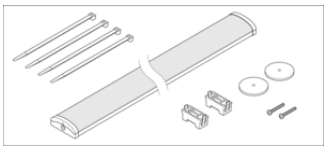
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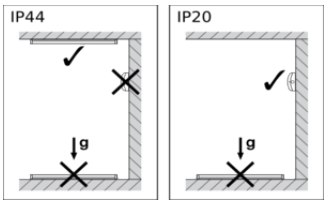
LOGISTICAL DATA

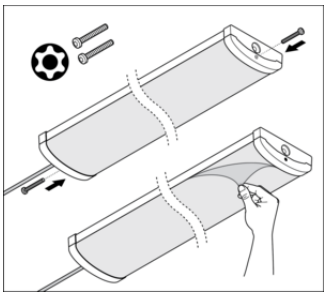
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075733251	Folding box 1	1,489 mm x 172 mm x 70 mm	3980.00 g	17.93 dm^3
4058075733268	Shipping box 4	1,503 mm x 302 mm x 200 mm	17105.00 g	90.78 dm^3

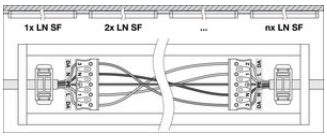
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

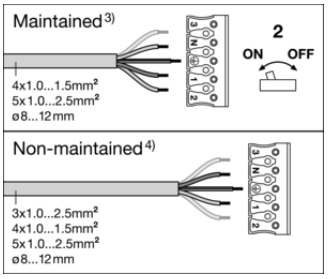
ADDITIONAL CATALOG INFORMATION

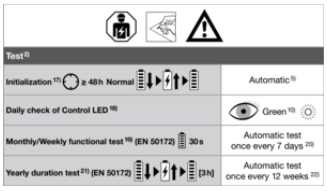












References / Links

– For Guarantee see www.ledvance.com/guarantee

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